Author Index Volume 15

Abildskov, J.A., 103
Aizawa, Y., 127
Alpert, J.S., 181
Anderson, G.J., 199, 285
Armstrong, P.W., 289
Arrigo, F., 411
Barrett, P.A., 317
Belanger, L., 157
Bellocci, F., 327
Bernard, P.M., 15
Bhattacharyya, M.L., 351
Bible, M., 143
Bischof, C., 249
Bissett, J.K., 295
Blackmon, J.R., 157
Bourassa, M.G., 15
Britt, B.A., 137
Bruce, R.A., 41, 157, 271, 307
Brymer, J.F., 61
Burgess, M.J., 1, 335
Byrd, M.D., 99
Camm, J., 77
Castellanos, A., 165
Chaitman, B.R., 15
Chambon, M., 209
Charash, B., 149
Chay, S.W., 195
Chia, B.L., 195
Codini, M., 173
Coglitore, S., 411
Colli, A.M., 265
Collins, J., 100
Consolo, F., 411
Coppola, E., 327
Cowan, M.J., 307
Coyle, J., 335
Curtis, G.P., 397
Das, G., 100
Delise, P., 100
Denes, P., 173
Devereux, R.B., 47
Digaetano, A., 327
Di Segni, E., 89
Duchene-Marullaz, P., 209
Duisterhout, J.S., 345
Edelstein, J., 115
Eisenstein, I., 115
Ejiri, N., 381
Ellestad, M.H., 143
Evans, A.K., 103
Fabry-Delaigue, R., 209
Feldman, H., 361
Fink, B., 317
Fisher, L., 307
Flora, J., 61
Fujimoto, K., 241
Garcia, O.L., 165
Gelband, H., 165
Giannetto, M., 411
Goldberger, A.L., 221, 397
Grant, M.E., 69
Green, B., 271
Green, L.S., 103
Greenberg, P.S., 143
Greengart, A., 361
Haïat, R., 100
Hakki, A-H., 199, 285
Han, J., 109
Hanson, J.S., 69
Haws, C.W., 1
Hayashi, N., 259
Hayashi, S., 127
Hellestrand, K., 77
Henderson, M.B., 289
Hill, N.E., 119
Hirata, Y., 381
Hollander, G., 361
Holman, B.L., 181
Horowitz, L., 199
Hosokawa, O., 127
Hossack, K.F., 41, 271
Huckell, F.F., 137
Hwang, B., 131
Inoue, M., 23
Ishihara, T., 23
Ishikawa, K., 23
Iskandrian, A.S., 199, 285
Jordan, J., 317
Kamakura, S., 381
Kane, S.A., 199
Kaplinsky, E., 89
Kato, T., 227
Keim, H.A., 131
Kerin, N.Z., 365
Klein, H.O., 89
Kligfield, P., 149
Kotaka, K., 227, 389
Koyama, M., 241
Krongrad, E., 131
Kuo, C.S., 403
Labianca, R., 265
La Rovere, M.T., 265
Lemaire, P., 209
Lichstein, E., 361
Lintermans, J.P., 9
Loperfido, F., 327
Lux, R.L., 103
Lynch, P., 205
Madoi, S., 265
Mandel, W.J., 317
Maple, R., 61
Marino, B., 327
Maroko, P.R., 181
Matsuhisa, M., 381
McVay, M.R., 189
Messer, J.V., 173
Mintz, G.S., 199
Miyazaki, Y., 227, 389
Mookherjee, S., 119
Morch, J.E., 137
M[illegible]burg, R.J., 165
[illegible]ai, M., 365
Natarajan, G., 189
Nathan, A., 77
Nishimura, M., 31
Pandian, N., 249
Piccolo, E., 100
Pitt, B., 61
Pizzarello, R.A., 85
Placek, E., 149
Prineas, R.J., 345
Puddu, P.E., 15
Obbiassi, M., 265
Ogawa, K., 389
Ohe, T., 381
Ohmae, M., 55
Oreto, G., 411
Ozawa, T., 127, 227, 389
Ozemek, H., 295
Rabkin, S.W., 55
Rakovec, P., 204
Rao, P., 365
Rautaharju, P.M., 345
Reddy, C.P., 189, 403
Reicheck, N., 47
Reichenbach, D.D., 307
Restivo, B., 85
Rials, S.J., 277
Ribeiro, L.G.T., 181
Ritterman, J.B., 41, 271
Roveda, M., 265
Rubenfire, M., 365
Ruggie, N., 173
Sada, T., 259
Salu, Y., 249
Sanders, M., 361
Sanmarco, M., 115
Santarelli, P. 327
Santinga, J.T., 61
Sarma, R., 115
Sartini, J.C., 403
Satake, T., 389
Schamroth, L., 89
Segal, B.L., 199, 285
Selvester, R.H., 115
Sheth, K.J., 153
Shibata, A., 127
Shiku, D.J., 9
Shimomura, K., 381
Shirato, C., 23
Simiele, A., 327
Simon, G., 131
Smith, Jr., H., 361
Smulyan, H., 119
Sos, T.A., 149
Spear, R., 119
Spurrell, R., 77
Staniloff, H.M., 137
Stijns, M., 9
Su, K-M., 259
Sugiyama, S., 227, 389
Surawicz, B., 189
Suzuki, K., 241
Suzuki, S., 227
Takeuchi, M., 259
Takeuchi, Y., 127
Tamura, T., 23
Tan, A.T.H., 195
Thomas, J.P., Jr., 153
Toyama, S., 241
Trimble, S., 157
Tse, W.W., 233, 277
Tuinstra, C.L., 345
Tuvemo, T., 325
Tzivoni, D., 317
Vagueiro, M.C., 165
Vasilomanolakis, E.C., 173
Vassalle, M., 351
Vitolo, E., 265
Wajszczuk, W.J., 365
Wanta-Matthews, M., 295
Ward, D.E., 77, 299
Warner, R.A., 119
Wartak, J., 395
Watanabe, K., 127
Watanabe, Y., 31
Watson, J.W., 295
Webb-Peploe, M.M., 205
Weissler, A.M., 100
Yamada, S., 31
Yamaguchi, I., 317
Yasuda, T., 181
Yew, F.C., 195
Yoon, M.S., 109
Yoshino, K., 241
Yotsukura, M., 23
Zema, M.J., 85, 401

Subject Index Volume 15

A

Acetylcholine
suppressive effect of, on automaticity of canine atrioventricular node, 3:233-240

Adriamycin cardiomyopathy
the meaning of bites on the vectorcardiogram: study in adriamycin cardiomyopathy, 3:265-270

Amiodarone
an "autonomic" classification of antiarrhythmic drugs, 4:397-400

Anatomopathological study
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, 3:209-220

Animal studies
dose-related effects of manganese on the canine electrocardiogram, 2:149-152
effects of atropine on the cardiac arrest induced by propranolol and digitoxin in dogs, 3:277-284
effects of sympathetic stimulation on refractory periods of ischemic canine ventricular myocardium, 1:1-8
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, 1:31-40
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, 3:209-220
mechanism of reperfusion arrhythmia — prostaglandin as a washout metabolite, 4:389-394
suppressive effect of acetylcholine on automaticity of canine atrioventricular node, 3:233-240

Antiarrhythmic drugs
an "autonomic" classification of antiarrhythmic drugs, 4:397-400

Arrhythmias
effects of premature depolarization on refractoriness of ischemic canine myocardium, 4:335-344
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, 3:209-220
mechanism of free fatty acid-induced, 3:227-232

Atrial
extrastimuli
rate-related accelerating (autodecremental) atrial pacing for reversion of paroxysmal supraventricular tachycardia, 1:77-84
extrastimulus testing
the mechanism of A-V conduction delay in A-V nodal gap, 4:381-388
injury
electrocardiographic changes of, 1:99
premature depolarization
a second zone of compensation during atrial premature stimulation: evidence for decremental conduction in the sinoatrial junction, 4:317-324
septal defect
influence of age on atrioventricular conduction intervals in children with and without atrial septal defect, 1:9-14
standstill
persistent atrial quiescence in adult rheumatic heart disease, 1:85-88

Atropine
effects of, on the cardiac arrest induced by propranolol and digitoxin in dogs, 3:277-284
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, 3:209-220

A-V block, *see* Block

Atrio-ventricular conduction
acute and chronic effects of diltiazem on A-V conduction at rest and during exercise, 1:41-46
influence of age on atrioventricular conduction intervals in children with and without atrial septal defect, 1:9-14
the mechanism of A-V conduction delay in A-V nodal gap, 4:381-388

B

Bayes theorem
the determination of the post-test likelihood for coronary disease using Bayes theorem, 1:61-68

Bites
meaning of, on the vectorcardiogram: study in adriamycin cardiomyopathy, 3:265-270

Biventricular overload
the evaluation of left and right ventricular hypertrophy in combined ventricular overload by electrocardiography: relationship with the echocardiographic data, 4:327-334

Block
alternating bundle branch
idiopathic long QT syndrome: association of ventricular tachycardia with alternating left and right bundle branch block, 2:189-194
complete A-V
His-bundle electrogram in the convalescent stage of inferior myocardial infarction complicated with complete A-V block, 2:127-130

C

Caffeine contracture
electrocardiographic abnormalities associated with malignant hyperthermia susceptibility, **2**:137-142

Calcium metabolism
electrocardiographic abnormalities associated with malignant hyperthermia susceptibility, **2**:137-142

Capture phenomena
unusual capture phenomena during interaction of dissociated sinus and junctional rhythms: spontaneous expression of intranodal duality and gap phenomenon, **3**:299-305

Cardiac
dipolar source in humans
a noninvasive method for locating a, **3**:249-258
muscle fibers
effects of tetrodotoxin on electrical and mechanical activity of cardiac Purkinje fibers, **4**:351-360
pauses
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, **3**:209-220

Carnitine
mechanism of free fatty acid-induced arrhythmias, **3**:227-232

Children
arrival of excitation at the left ventricular apical endocardium in Wolff-Parkinson-White syndrome type B, **2**:165-172
electrocardiograms in Fabry's disease, **2**:153-156
influence of age on atrioventricular conduction intervals in children with and without atrial septal defect, **1**:9-14
transparent overlay for reading pediatric electrocardiograms, **4**:395-396
T wave changes in the right precordial leads in seven- and eight-year-old children during a Valsalva manoeuvre, **4**:325-326

Computers
diagnostic program
sensitivity for Telemed diagnosis of myocardial infarction by use of 12-lead electrocardiogram derived from Frank XYZ leads, **2**:157-164
estimation of myocardial infarct size by digital computer analysis of the VCG, **4**:307-316
micro-processor synthesis and analysis of the polarcardiogram, **1**:69-76
noninvasive method for locating a cardiac dipolar source in humans, **3**:249-258
on-line microcomputer system for analysis of precordial maps, **3**:289-294
performance of three visual coding procedures and three computer programs in classification of electrocardiograms according to the Minnesota code, **4**:345-350
QT interval measurement
by a computer assisted program: a potentially useful clinical parameter, **1**:15-22

Concealed
bigeminy
rate dependent variation in, **3**:295-298
E-V conduction
parasystolic ventricular tachycardia with variable exit block, **4**:411-416

Conduction time
arrival of excitation at the left ventricular apical endocardium in Wolff-Parkinson-White syndrome, type B, **2**:165-172
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40

Contractile force
effects of tetrodotoxin on electrical and mechanical activity of cardiac Purkinje fibers, **4**:351-360

Coordinate transforms
micro-processor synthesis and analysis of the polarcardiogram, **1**:69-76

Coronary disease
changes in R wave during exercise: correlation with left ventricular function and volumes, **2**:199-203
determination of the post test likelihood for coronary disease using Bayes theorem, **1**:61-68
prospective application of the multivariate approach to enhance the accuracy of the treadmill stress test, **2**:143-148

Cor pulmonale
the P terminal vector in lead V_1 of the electrocardiogram in, **3**:205-208

D

Digitoxin
effects of atropine on the cardiac arrest induced by propranolol and, in dogs, **3**:277-284

Diltiazem
acute and chronic effects of, on A-V conduction at rest and during exercise, **1**:41-46

Disopyramide
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40

Drug studies
acute and chronic effects of diltiazem on A-V conduction at rest and during exercise, **1**:41-46
an "autonomic" classification of antiarrhythmic drugs, **4**:397-400
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40
electrophysiologic effects of mexiletine on normal and ischemic ventricles, **2**:109-114

Dysrhythmias
Prinzmetal's variant angina: electrocardiographic and angiographic correlations, **4**:365-380

E

Echocardiography
evaluation of left and right ventricular hypertrophy in combined ventricular overload by electrocardiography: relationship with the echocardiographic data, **4**:327-334
repolarization abnormalities of left ventricular hypertrophy. Clinical, echocardiographic and hemodynamic correlates, **1**:47-54

Electrocardiology
ECG recognition of concomitant left anterior fascicular block and inferior myocardial infarction, **4**:401-402
electrocardiographic abnormalities
relationship between QRS width and the presence of neoplasm, **4**:361-364
evaluation of left and right ventricular hypertrophy in combined ventricular overload by electrocardiography: relationship with the echocardiographic data, **4**:327-334

Electrocardiograms
accuracy of localization of acute myocardial infarction by 12 lead electrocardiography, **2**:181-188
classification of ventricular ectopic beats, **1**:55-60
comprehensive evaluation of electrocardiographic methods for detection of myocardial infarction, **3**:271-276
dose-related effects of manganese on the canine, **2**:149-152
effect of left ventricular aneurysmectomy on the electrocardiogram: a study of 77 patients and review of the literature, **2**:173-180
in Fabry's disease, **2**:153-156
in obesity, **2**:115-118
in patients with scoliosis, **2**:131-136
transparent overlay for reading, **4**:395-396
performance of three visual coding procedures and three computer programs in classification of, according to the Minnesota code, **4**:345-350
P terminal vector in lead V_1 of, in cor pulmonale, **3**:205-208
sensitivity for Telemed diagnosis of myocardial infarction by use of 12-lead electrocardiogram derived from Frank XYZ leads, **2**:157-164
sequential changes in high frequency notches on QRS complexes in progressive muscular dystrophy of the Duchenne type, **1**:23-30
simple method to determine the electrocardiographic frontal plane axis, **3**:285-288

Electrophysiology
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40
electrophysiologic effects of mexiletine on normal and ischemic ventricles, **2**:109-114
rate-related accelerating (autodecremental) atrial pacing for reversion of paroxysmal supraventricular tachycardia, **1**:77-84

Exercise testing
acute and chronic effects of diltiazem on A-V conduction at rest and during exercise, **1**:41-46
changes in R wave during exercise: correlation with left ventricular functon and volumes, **2**:199-203
determination of the post-test likelihood for coronary disease using Bayes theorem, **1**:61-68
Prinzmetal's variant angina: electrocardiographic and angiographic correlations, **4**:365-380

Exit block
parasystolic ventricular tachycardia with variable exit block, **4**:411-416

Extrasystoles
the supernormal phase of intraventricular conduction: normalization of intraventricular conduction of premature atrial beats, **1**:89-98

F

Fabry's disease
electrocardiograms in, **2**:153-156

Familial
Wolff-Parkinson-White syndrome, **2**:195-198

Free fatty acid-induced arrhythmias
mechanism of, **3**:227-232

"Fusion" complexes
arrival of excitation at the left ventricular apical endocardium in Wolff-Parkinson-White syndrome type B, **2**:165-172

G

Gap phenomenon
unusual capture phenomena during interaction of dissociated sinus and junctional rhythms: spontaneous expression in intranodal duality and, **3**:299-305

Global plots of heart vector
polarcardiographic study of inferior myocardial infarction: global projection of heart vector, **3**:259-264

H

High frequency notches
sequential changes in high frequency notches on QRS complexes in progressive muscular dystrophy of the Duchenne type, **1**:23-30

His bundle electrogram
in the convalescent stage of inferior myocardial infarction complicated with complete A-V block, **2**:127-130
recording via the arm veins, **2**:204

His-Purkinje system
the mechanism of A-V conduction delay in A-V nodal gap, **4**:381-388

HV block
His-bundle electrogram in the convalescent stage of inferior myocardial infarction complicated with complete A-V block, **2**:127-130

I

Indeterminate QRS axis
genesis of indeterminate axis: a quantitative vectorcardiographic analysis, **3**:221-226

Intranodal duality
unusual capture phenomena during interaction of dissociated sinus and junctional rhythms: spontaneous expression of, and gap phenomenon, **3**:299-305

Intraventricular conduction
supernormal phase of intraventricular conduction: normalization of intraventricular conduction of premature atrial beats, **1**:89-98

Ischemia
effects of sympathetic stimulation of refractory periods of ischemic canine ventricular myocardium, **1**:1-8

J

Junctional automaticity
effects of atropine on the cardiac arrest induced by propranolol and digitoxin in dogs, **3**:277-284

L

Left ventricular hypertrophy
electrogenesis of the initial forces in, **1**:100
repolarization abnormalities of, **1**:47-54

Lidocaine
an "autonomic" classification of antiarrhythmic drugs, **4**:397-400

Long QT syndrome
idiopathic long QT syndrome: association of ventricular tachycardia with alternating left and right bundle branch block, **2**:189-194

Lown-Ganong-Levin pre-excitation
familial Wolff-Parkinson-White syndrome, **2**:195-198

M

Malignant hyperthermia susceptibility
electrocardiographic abnormalities associated with, **2**:137-142

Manganese
dose-related effects of, on the canine electrocardiogram, **2**:149-152

Maps
body surface isopotential mapping of the QRS wave in myocardial infarction, **3**:241-248
on-line microcomputer system for analysis of precordial maps, **3**:289-294

Maximum diastolic potential
suppressive effect of acetylcholine on automaticity of canine atrioventricular node, **3**:233-240

Mexiletine
electrophysiologic effects of, on normal and ischemic ventricles, **2**:109-114

Microprocessor
rate-related accelerating (autodecremental) atrial pacing for reversion of paroxysmal supraventricular tachycardia, **1**:77-84
technology
micro-processor synthesis and analysis of the polarcardiogram, **1**:69-76

Minnesota code
the performance of three visual coding procedures and three computer programs in classification of electrocardiograms according to the Minnesota code, **4**:345-350

Myocardial imaging
accuracy of localization of acute myocardial infarction by 12 lead electrocardiography, **2**:181-188

Myocardial infarction
accuracy of localization of acute myocardial infarction by 12 lead electrocardiography, **2**:181-188
body surface isopotential mapping of the QRS wave in, **3**:241-248
comprehensive evaluation of electrocardiographic methods for detection of, **3**:271-276
inferior
ECG recognition of concomitant left anterior fascicular block and, **4**:401-402
His-bundle electrogram in the convalescent stage of inferior myocardial infarction complicated with complete A-V block, **2**:127-130
polarcardiographic study of global projection of heart vector, **3**:259-264
Prinzmetal's variant angina: electrocardiographic and angiographic correlations, **4**:365-380
sensitivity for Telemed diagnosis of myocardial infarction by use of 12-lead electrocardiogram derived from Frank leads, **2**:157-164
size
estimation of, by digital computer analysis of the VCG, **4**:307-316

Myocardial ischemia
electrophysiologic effects of mexiletine on normal and ischemic ventricles, **2**:109-114

Multivariate analysis
prospective application of the multivariate approach to enhance the accuracy of the treadmill stress test, **2**:143-148

N

Noninvasive methods
a noninvasive method for locating a cardiac dipolar source in humans, **3**:249-258

Normality
QT interval measurement by a computer assisted program, **1**:15-22

O

Obesity
electrocardiogram in, **2**:115-118

P

Pacemakers, auricular
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, **3**:209-220

Pacing
detection of experimental right ventricular necrosis using vectorcardiograms obtained during artificial pacing, **2**:119-126
rate-related accelerating (autodecremental) atrial pacing for reversion of paroxysmal supraventricular tachycardia, **1**:77-84

Paraneoplastic syndromes
relationship between QRS width and the presence of neoplasm, **4**:361-364

Parasympathetic activity
effects of atropine on the cardiac arrest induced by propranolol and digitoxin in dogs, **3**:277-284

Parasystolic ventricular tachycardia
with variable exit block, **4**:411-416

Phase-4 depolarization
suppressive effect of acetylcholine on automaticity of canine atrioventricular node, **3**:233-240

Polarcardiogram
comprehensive evaluation of electrocardiographic methods for detection of myocardial infarction, **3**:271-276
micro-processor synthesis and analysis of the polarcardiogram, **1**:69-76

Polarcardiography
polarcardiographic study of inferior myocardial infarction: global projection of heart vector, **3**:259-264

Premature atrial stimulation
a second zone of compensation during atrial premature stimulation: evidence for decremental conduction in the sinoatrial junction, **4**:317-324

Premature ventricular beats
rate dependent variation in concealed bigeminy, **3**:295-298

Prinzmetal's angina pectoris
electrocardiographic and angiographic correlations, **4**:365-380

Progressive muscular dystrophy
sequential changes in high frequency notches on QRS complexes in, **1**:23-30

Propranolol
effects of atropine on the cardiac arrest induced by propranolol and digitoxin in dogs, **3**:277-284
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, **3**:209-220

Prostaglandin
mechanism of reperfusion arrhythmia — prostaglandin as a washout metabolite, **4**:389-394

P terminal vector
in lead V_1 of the electrocardiogram in cor pulmonale, **3**:205-208

PVDs
effects of premature depolarization of refractoriness of ischemic canine myocardium, **4**:335-344

P wave, axis of
a simple method to determine the electrocardiographic frontal plane axis, **3**:285-288

Purkinje fibers
effects of tetrodotoxin on electrical and mechanical activity of, **4**:351-360

Purkinje repolarization
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40

Q

QRS complex
a simple method to determine the electrocardiographic frontal plane axis, **3**:285-288
a transparent overlay for reading pediatric electrocardiograms, **4**:395-396
sequential changes in high frequency notches on QRS complexes in progressive muscular dystrophy of the Duchenne type, **1**:23-30

QRS vectors
a classification of ventricular ectopic beats, **1**:55-60

QRS wave
body surface isopotential mapping of the QRS wave in myocardial infarction, **3**:241-248
estimation of myocardial infarct size by digital computer analysis of the VCG, **4**:307-316

QT interval measurement
by a computer assisted program, **1**:15-22

Quantification
estimation of myocardial infarct size by digital computer analysis of the VCG, **4**:307-316

Q waves
the effect of left ventricular aneurysmectomy on the electrocardiogram: a study of 77 patients and review of the literature, **2**:173-180

R

Radionuclide angiography
changes in R wave during exercise: correlation with left ventricular function and volume, **2**:199-203

Rate dependent variation
in concealed bigeminy, **3**:295-298

Reciprocating atrioventricular tachycardia
rate-related accelerating (autodecremental) atrial pacing for reversion of paroxysmal supraventricular tachycardia, **1**:77-84

Reentry
effects of premature depolarization on refractoriness of ischemic canine myocardium, **4**:335-344

Refractoriness
effects of sympathetic stimulation on refractory periods of ischemic canine ventricular myocardium, **1**:1-8

Refractory period
effects of premature depolarization on refractoriness of ischemic canine mycocardium, **4**:335-344
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40
the QRST deflection area of electrograms during global alterations of ventricular repolarizations, **2**:103-108

Reperfusion arrhythmia
mechanism of — prostaglandin as a washout metabolite, **4**:389-394

Repolarization
abnormalities
of left ventricular hypertrophy, **1**:47-54
ischemic nature of pseudo normalization of the, **1**:100

Rheumatic heart disease
persistent atrial quiescence in adult rheumatic heart disease, **1**:85-88

Right axis deviation
the electrocardiogram in patients with scoliosis, **2**:131-136

Right ventricular hypertrophy
the electrocardiogram in patients with scoliosis, **2**:131-136

Right ventricular necrosis
detection of experimental right ventricular necrosis using vectorcardiograms obtained during artificial pacing, **2**:119-126

R wave
changes in
during exercise: correlation with left ventricular function and volumes, **2**:199-203
height
the effect of left ventricular aneurysmectomy on the electrocardiogram: a study of 77 patients and review of the literature, **2**:173-180

S

Scintigram
the body surface isopotential mapping of the QRS wave in myocardial infarction, **3**:241-248

Scoliosis
the electrocardiogram in, **2**:131-136

Sick sinus syndrome
long-term observation of cardiac rhythm and automaticity in the dog after excision of the sinoatrial node, **3**:209-220

Sinus node return cycles
a second zone of compensation during atrial premature stimulation: evidence for decremental conduction in the sinoatrial junction, **4**:317-324

Sodium influx
effects of tetrodotoxin on electrical and mechanical activity of Purkinje fibers, **4**:351-360

ST elevation
the effect of left ventricular aneurysmectomy on the electrocardiogram: a study of 77 patients and review of the literature, **2**:173-180

ST segment
on-line microcomputer system for analysis of precordial maps, **3**:298-294

Stress testing
prospective application of the multivariate approach to enhance the accuracy of the treadmill stress test, **2**:143-148

Supernormality
the supernormal phase of intraventricular conduction: normalization of intraventricular conduction of premature atrial beats, **1**:89-98

Supraventricular tachycardia
with anomalous ventricular excitation
paroxysmal ventricular tachycardia in Wolff-Parkinson-White syndrome, **4**:403-410

S waves
the genesis of indeterminate axis: a quantitative vectorcardiographic analysis, **3**:221-226

Sympathetic activity
effects of atropine on the cardiac arrest induced by propranolol and digitoxin in dogs, **3**:277-284

Sympathetic stimulation
effects of, on refractory periods of ischemic canine ventricular myocardium, **1**:1-8

T

Tetrodotoxin
effects of, on electrical and mechanical activity of cardiac Purkinje fibers, **4**:351-360

Thallium-201
the body surface isopotential mapping of the QRS wave in myocardial infarction, **3**:241-248

Torsades de pointes
idiopathic long QT syndrome: association of ventricular tachycardia with alternating left and right bundle branch block, **2**:189-194

Transmembrane potentials
electrophysiologic effects of disopyramide studied in a hypoxic canine Purkinje fiber model, **1**:31-40
of AV nodal fibers
suppressive effect of acetylcholine on automaticity of canine atrioventricular node, **3**:233-240

Tricuspid regurgitation
persistent atrial quiescence in adult rheumatic heart disease, **1**:85-88

Tumor
relationship between QRS width and the presence of neoplasm, **4**:361-364

T wave
changes
in the right precordial leads in seven- and eight-year-old children during a Valsalva manoeuvre, **4**:325-326
the electrocardiogram in obesity, **2**:115-118
the QRST deflection area of electrograms during global alterations of ventricular repolarization, **2**:103-108

V

Valsalva manoeuvre
T wave changes in the right precordial leads in seven- and eight-year-old children during a, **4**:325-326

Ventricular
arrhythmias
electrophysiologic effects of mexiletine on normal and ischemic ventricles, **2**:109-114
ectopic beats
a classification of, **1**:55-60
gradient
the QRST deflection area of electrograms during global alterations of ventricular repolarization, **2**:103-108

Vectorcardiograms
comprehensive evaluation of electrocardiographic methods for detection of myocardial infarction, **3**:271-276
detection of experimental right ventricular necrosis using vectorcardiograms obtained during artificial pacing, **2**:119-126

Vectorcardiography
the ECG recognition of concomitant left anterior fascicular block and inferior myocardial infarction, **4**:401-402
the genesis of indeterminate axis: a quantitative vectorcardiographic analysis, **3**:221-226
the meaning of bites on the vectorcardiogram: study in adriamycin cardiomyopathy, **3**:265-270

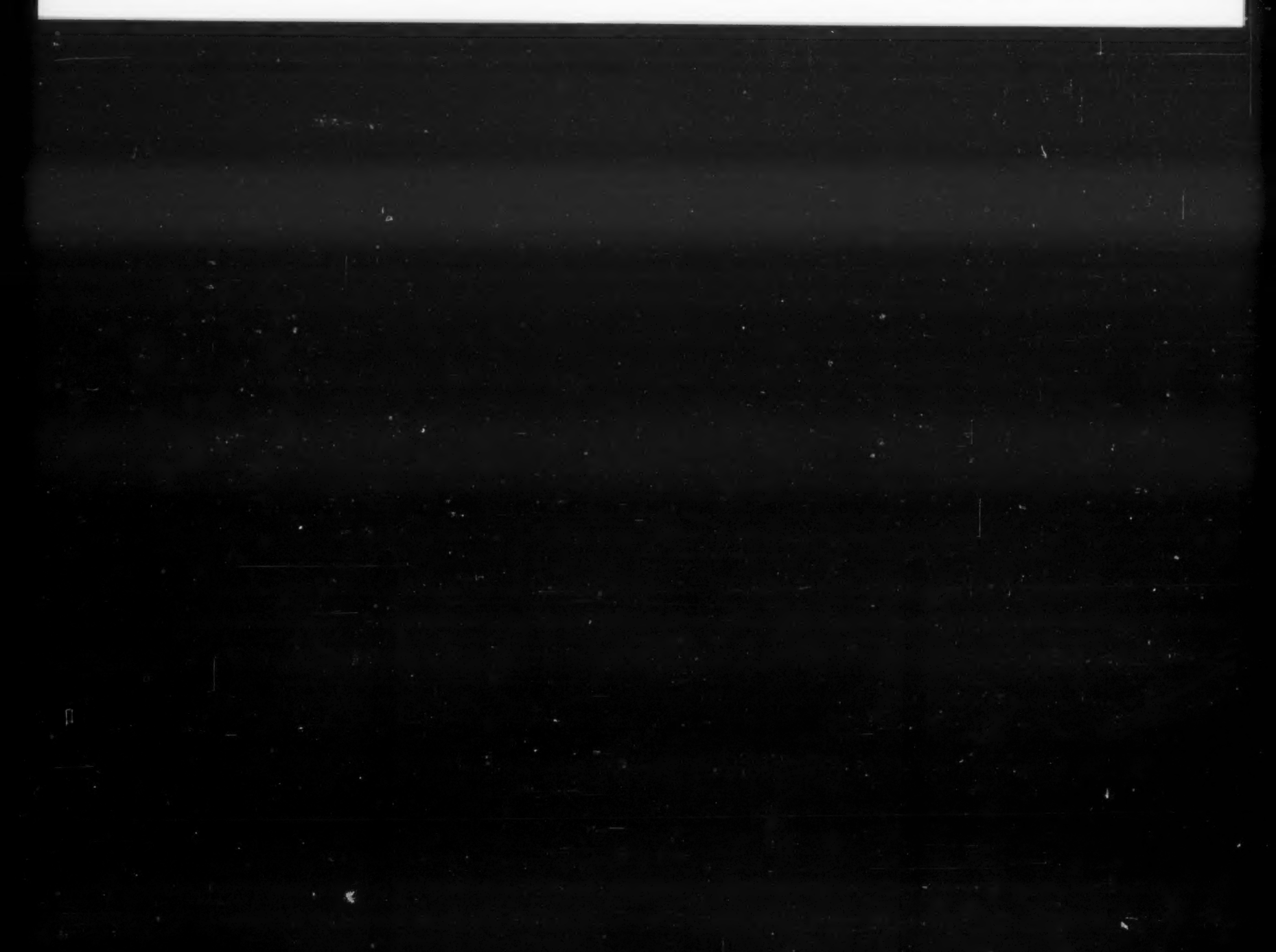
Vector magnitude
estimation of myocardial infarct size by digital computer analysis of the VCG, **4**:307-316

Ventricular
automaticity
effects of atropine on the cardiac arrest induced by propranolol and digitoxin in dogs, **3**:277-284
fibrillation
Prinzmetal's variant angina: electrocardiographic and angiographic correlations, **4**:365-380
tachycardia
paroxysmal ventricular tachycardia in Wolff-Parkinson-White syndrome, **4**:403-410

Visual coding procedures
the performance of three visual coding procedures and three computer programs in classification of electrocardiograms according to the Minnesota code, **4**:345-350

W

Wolff-Parkinson-White syndrome
familial, **2**:195-198
paroxysmal ventricular tachycardia in, **4**:403-410
type B
arrival of excitation at the left ventricular apical endocardium in, **2**:165-172



NUMBER 1

Original Communications:

Effects of Sympathetic Stimulation on Refractory Periods of Ischemic Canine Ventricular Myocardium
By *M.J. Burgess and C.W. Haws* 1

Influence of Age on Atrioventricular Conduction Intervals in Children with and without Atrial Septal Defect
By *D.J. Shiku, M. Stijns, J.P. Lintermans and A. Vliers* 9

QT Interval Measurement by a Computer Assisted Program: A Potentially Useful Clinical Parameter
By *P.E. Puddu, P.M. Bernard, B.E. Chaitman and M.G. Bourassa* 15

Sequential Changes in High Frequency Notches on QRS Complexes in Progressive Muscular Dystrophy of the Duchenne Type—A 3-year Follow-up Study
By *K. Ishikawa, C. Shirato, M. Yotsukura, T. Ishihara, T. Tamura and M. Inoue* 23

Electrophysiologic Effects of Disopyramide Studied in a Hypoxic Canine Purkinje Fiber Model
By *S. Yamada, M. Nishimura and Y. Watanabe* 31

Acute and Chronic Effects of Diltiazem on A-V Conduction at Rest and during Exercise
By *J.B. Ritterman, K.F. Hossack and R.A. Bruce* 41

Repolarization Abnormalities of Left Ventricular Hypertrophy. Clinical, Echocardiographic and Hemodynamic Correlates.
By *R.B. Devereux and N. Reichek* 47

A Classification of Ventricular Ectopic Beats
By *S.W. Rabkin and M. Ohmae* 55

The Determination of the Post-Test Likelihood for Coronary Disease Using Bayes Theorem
By *J.T. Santinga, J. Flora, R. Maple, J.F. Brymer and B. Pitt* 61

Technical Communications:

Micro-Processor Synthesis and Analysis of the Polarcardiogram
By *M.E. Grant and J.S. Hanson* 69

Recent Progress in Cardiac Pacing:

Rate-Related Accelerating (Autodecremental) Atrial Pacing for Reversion of Paroxysmal Supraventricular Tachycardia
By *A. Nathan, K. Hellestrand, D. Ward, R. Spurrell and J. Camm* 77

Case Studies:

Persistent Atrial Quiescence in Adult Rheumatic Heart Disease
By *M.J. Zema, B. Restivo and R.A. Pizzarello* 85

The Supernormal Phase of Intraventricular Conduction: Normalization of Intraventricular Conduction of Premature Atrial Beats
By *H.O. Klein, E. DiSegni, E. Kaplinsky and L. Schamroth* 89

Letters to the Editor:

Electrocardiographic Changes of Atrial Injury
By *M.D. Byrd* 99

Ischemic Nature of Pseudo Normalization of the Repolarization
By *R. Haïat; L. Gould* 100

Electrogenesis of the Initial Forces in LVH
By *E. Piccolo and P. Delise; G. Das, J. Collins and A.M. Weissler* 100

NUMBER 2

Original Communications:

The QRST Deflection Area of Electrograms during Global Alterations of Ventricular Repolarization
By *J.A. Abildskov, L.S. Green, A.K. Evans and R.L. Lux* 103

Electrophysiologic Effects of Mexiletine on Normal and Ischemic Ventricles
By *M.S. Yoon and J. Han* 109

The Electrocardiogram in Obesity
By *I. Eisenstein, J. Edelstein, R. Sarma, M. Sanmarco and R.H. Selvester* 115

Detection of Experimental Right Ventricular Necrosis Using Vectorcardiograms Obtained during Artificial Pacing
By *R.A. Warner, N.E. Hill, R. Spear, S. Mookherjee and H. Smulyan* 119

His-Bundle Electrogram in the Convalescent Stage of Inferior Myocardial Infarction Complicated with Complete A-V Block
By *Y. Aizawa, S. Hayashi, O. Hosokawa, K. Watanabe, T. Ozawa, A. Shibata and Y. Takeuchi* 127

The Electrocardiogram in Patients with Scoliosis
By *B. Hwang, G. Simon, H.A. Keim and E. Krongrad* 131

Electrocardiographic Abnormalities Associated with Malignant Hyperthermia Susceptibility
By *V.F. Huckell, H.M. Staniloff, B.A. Britt and J.E. Morch* 137

Prospective Application of the Multivariate Approach to Enhance the Accuracy of the Treadmill Stress Test
By *P.S. Greenberg, M. Bible and M.H. Ellestad* 143

Dose-Related Effects of Manganese on the Canine Electrocardiogram
By *B. Charash, E. Placek, T.A. Sos and P. Kligfield* 149

Electrocardiograms in Fabry's Disease
By *K.J. Sheth and J.P. Thomas, Jr.* 153

Sensitivity for Telemed Diagnosis of Myocardial Infarction by Use of 12-lead Electrocardiogram Derived from Frank XYZ Leads
By *R.A. Bruce, L. Belanger, J.R. Blackmon, and S. Trimble* 157

Arrival of Excitation of the Left Ventricular Apical Endocardium in Wolff-Parkinson-White Syndrome Type B
By *O.L. Garcia, A. Castellanos, M.C. Vagueiro, R.J. Myerburg and H. Gelband* 165

The Effect of Left Ventricular Aneurysmectomy on the Electrocardiogram: A Study of 77 Patients and Review of the Literature
By *E.C. Vasilomanolakis, N. Ruggie, M. Codini, J.V. Messer and P. Denes* 173

Accuracy of Localization of Acute Myocardial Infarction by 12 Lead Electrocardiography
By *T. Yasuda, L.G.T. Ribeiro, B.L. Holman, J.S. Alpert and P.R. Maroko* 181

Case Studies:

Idiopathic Long QT Syndrome: Association of Ventricular Tachycardia with Alternating Left and Right Bundle Branch Block
By *M.R. McVay, G. Natarajan, C.P. Reddy and B. Surawicz* 189

Familial Wolff-Parkinson-White Syndrome
By *B.L. Chia, F.C. Yew, S.O. Chay and A.T.H. Tan* 195

Review Article:

Changes in R Wave during Exercise: Correlation with Left Ventricular Function and Volumes
By *A.S. Iskandrian, A-H. Hakki, L. Horowitz, G.S. Mintz, G.J. Anderson, S.A. Kane and B.L. Segal* 199

Letter to the Editor:

His Bundle Electrogram Recording Via the Arm Veins
By *P. Rakovec* 204

NUMBER 3

Original Communications:

The P Terminal Vector in Lead V_1 of the Electrocardiogram in Cor Pulmonale
By *P. Lynch and M.M. Webb-Peploe* 205

Long-Term Observation of Cardiac Rhythm and Automaticity in the Dog after Excision of the Sinoatrial Node
By *R. Fabry-Delaigue, P. Duchêne-Marullaz, P. Lemaire and M. Chambon* 209

The Genesis of Indeterminate Axis: A Quantitative Vectorcardiographic Analysis
By *A.L. Goldberger* 221

Mechanism of Free Fatty Acid-Induced Arrhythmias
By *S. Sugiyama, Y. Miyazaki, K. Kotaka, T. Kato, S. Suzuki and T. Ozawa* 227

Suppressive Effect of Acetylcholine on Automaticity of Canine Atrioventricular Node
By *W.W. Tse* 233

The Body Surface Isopotential Mapping of the QRS Wave in Myocardial Infarction. Comparative Study of the Scintigram with Thallium-201
By *S. Toyama, K. Suzuki, M. Koyama, K. Yoshino and K. Fujimoto* 241

A Noninvasive Method for Locating a Cardiac Dipolar Source in Humans
By *Y. Salu, C. Bischof and N. Pandian* 249

Polarcardiographic Study of Inferior Myocardial Infarction: Global Projection of Heart Vector
By *T. Sada, M. Takeuchi, N. Hayashi and K.M. Su* 259

The Meaning of Bites on the Vectorcardiogram: Study in Adriamycin Cardiomyopathy
By *E. Vitolo, S. Madoi, A.M. Colli, M. Roveda, M.T. La Rovere, M. Obbiassi and R. Labianca* 265

Comprehensive Evaluation of Electrocardiographic Methods for Detection of Myocardial Infarction
By *J.B. Ritterman, K.F. Hossack, B. Green and R.A. Bruce* 271

Effects of Atropine on the Cardiac Arrest Induced by Propranolol and Digitoxin in Dogs
By *S.J. Rials and W.W. Tse* 277

Methods:

A Simple Method to Determine the Electrocardiographic Frontal Plane Axis
By *A.H. Hakki, G.J. Anderson, A.S. Iskandrian and B.L. Segal* 285

On-Line Microcomputer System for Analysis of Precordial Maps
By *M.B. Henderson and P.W. Armstrong* 289

Case Studies:

Rate Dependent Variation in Concealed Bigeminy
By *J.K. Bissett, J.W. Watson, M. Wanta-Matthews and H. Ozemek* 295

Unusual Capture Phenomena during Interaction of Dissociated Sinus and Junctional Rhythms: Spontaneous Expression of Intranodal Duality and Gap Phenomenon
By *D.E. Ward* 299

NUMBER 4

Original Communications:

Estimation of Myocardial Infarct Size by Digital Computer Analysis of the VCG
By *M.J. Cowan, D.D. Reichenbach, R.A. Bruce and L. Fisher* 307

A Second Zone of Compensation during Atrial Premature Stimulation: Evidence for Decremental Conduction in the Sinoatrial Junction
By *D. Tzivoni, J. Jordan, W.J. Mandel, P.A. Barrett, B. Fink and I. Yamaguchi* 317

T Wave Changes in the Right Precordial Leads in Seven- and Eight-Year-Old Children during a Valsalva Manoeuvre
By *T. Tuvemo* 325

The Evaluation of Left and Right Ventricular Hypertrophy in Combined Ventricular Overload by Electrocardiography: Relationship with the Echocardiographic Data
By *F. Loperfido, A. Digaetano, P. Santarelli, F. Bellocci, B. Marino, A. Simiele and E. Coppola* 327

Effects of Premature Depolarization on Refractoriness of Ischemic Canine Myocardium
By *M.J. Burgess and J. Coyle* 335

The Performance of Three Visual Coding Procedures and Three Computer Programs in Classification of Electrocardiograms according to the Minnesota Code
By *C.L. Tuinstra, P.M. Rautaharju, R.J. Prineas and J.S. Duisterhout* 345

Effects of Tetrodotoxin on Electrical and Mechanical Activity of Cardiac Purkinje Fibers
By *M.L. Bhattacharyya and M. Vassalle* 351

Relationship between QRS Width and the Presence of Neoplasm
By *H. Feldman, E. Lichstein, H. Smith, Jr., G. Hollander, A. Greengart and M. Sanders* 361

Prinzmetal's Variant Angina: Electrocardiographic and Angiographic Correlations
By *N.Z. Kerin, M. Rubenfire, M. Naini, W.J. Wajszczuk and P. Rao* 365

The Mechanism of A-V Conduction Delay in A-V Nodal Gap
By *T. Ohe, M. Matsuhisa, S. Kamakura, Y. Hirata, N. Ejiri and K. Shimomura* 381

Mechanism of Reperfusion Arrhythmia — Prostaglandin as a Washout Metabolite
By *Y. Miyazaki, K. Kotaka, K. Ogawa, T. Satake, S. Sugiyama and T. Ozawa* 389

Annotations:

A Transparent Overlay for Reading Pediatric Electrocardiograms
By *J. Wartak* 395

An "Autonomic" Classification of Antiarrhythmic Drugs
By *A.L. Goldberger and G.P. Curtis* 397

The ECG Recognition of Concomitant Left Anterior Fascicular Block and Inferior Myocardial Infarction
By *M.J. Zema* 401

Case Studies:

Paroxysmal Ventricular Tachycardia in Wolff-Parkinson-White Syndrome: Case Report and Review of the Literature
By *C.P. Reddy, J.C. Sartini and C.S. Kuo* 403

Parasystolic Ventricular Tachycardia with Variable Exit Block
By *G. Oreto, F. Arrigo, S. Coglitore, M. Giannetto and F. Consolo* 411

Index: 417